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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/625,777	07/26/2000	Tao Chen	PA000330	7872
23696	7590	06/02/2004	EXAMINER	
Qualcomm Incorporated Patents Department 5775 Morehouse Drive San Diego, CA 92121-1714			ZIMMERMAN, BRIAN A	
			ART UNIT	PAPER NUMBER
			2635	8
DATE MAILED: 06/02/2004				

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary	Application No.	Applicant(s)
	09/625,777	CHEN ET AL.
	Examiner	Art Unit
	Brian A Zimmerman	2635

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

1) Responsive to communication(s) filed on 22 April 2004.

2a) This action is FINAL. 2b) This action is non-final.

3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

4) Claim(s) 15-50 is/are pending in the application.

4a) Of the above claim(s) _____ is/are withdrawn from consideration.

5) Claim(s) _____ is/are allowed.

6) Claim(s) 15-28,30-46,48-50 is/are rejected.

7) Claim(s) 29 and 47 is/are objected to.

8) Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

9) The specification is objected to by the Examiner.

10) The drawing(s) filed on _____ is/are: a) accepted or b) objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).

11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).

a) All b) Some * c) None of:

1. Certified copies of the priority documents have been received.
2. Certified copies of the priority documents have been received in Application No. _____.
3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

1) Notice of References Cited (PTO-892)

2) Notice of Draftsperson's Patent Drawing Review (PTO-948)

3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date _____

4) Interview Summary (PTO-413)
Paper No(s)/Mail Date _____

5) Notice of Informal Patent Application (PTO-152)

6) Other: _____

EXAMINER'S RESPONSE**Status of Application**

In response to the applicant's amendment received on 4/22/04. The examiner has considered the new presentation of claims and applicant arguments in view of the disclosure and the present state of the prior art. And it is the examiner's position that claims 15-28,30-46,48-50 are unpatentable for the reasons set forth in this office action:

Claim Rejections - 35 USC § 112

The following is a quotation of the first paragraph of 35 U.S.C. 112:

The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.

1. Claims 19 and 37 are rejected under 35 U.S.C. 112, first paragraph, as containing subject matter which was not described in the specification in such a way as to reasonably convey to one skilled in the relevant art that the inventor(s), at the time the application was filed, had possession of the claimed invention. Support could not be found, in the specification as originally filed, for choosing base stations based on a priority order.

2. Claims 21,22,24-26,39,40,42-44 are rejected under 35 U.S.C. 112, first paragraph, as containing subject matter which was not described in the specification in such a way as to reasonably convey to one skilled in the relevant

art that the inventor(s), at the time the application was filed, had possession of the claimed invention. Support could not be found in the specification as originally filed, for processing in serial or parallel as claimed.

3. Claims 23 and 41 are rejected under 35 U.S.C. 112, first paragraph, as containing subject matter which was not described in the specification in such a way as to reasonably convey to one skilled in the relevant art that the inventor(s), at the time the application was filed, had possession of the claimed invention. Support could not be found, in the specification as originally filed, for monitoring a subset of regular paging messages.

Claim Rejections - 35 USC § 103

The text of those sections of Title 35, U.S. Code not included in this action can be found in a prior Office action.

4. Claims 15-18,20-28,30-36,38-46,47-50 are rejected under 35 U.S.C. 103(a) as being unpatentable over Bruckert (5920549), Ghosh (6018667), Willey (6138034), and Tiedemann (6216004).

Bruckert shows searching a plurality of pilot channels associated with a plurality of base stations to choose the "best" base station(s). Then the paging channels from the best base stations are further used to set up a call. Bruckert differs from the claimed invention in that it does not show the paging channels

(from the plurality of base stations) in substantially overlapping time slots.

Bruckert shows soft combining the best base station signals into a composite received signal (see col. 8 lines 33-45) and making (decoding) decisions based upon the composite signal. Bruckert shows the active set of base stations are monitored and demodulated simultaneously. See col. 4 lines 49-57.

In an analogous art, Ghosh shows the advantages of having neighboring base stations synchronized to each other. Synchronized base stations imply that the paging channels substantially overlap. This decreases acquisition time. See col. 2 lines 10-22.

Therefore, it would have been obvious to one of ordinary skill in the art at the time of the invention to have synchronized the paging channels of adjacent base stations in Bruckert since Ghosh shows this reduces acquisition time.

In an analogous art, Willey teaches the use of a quick paging channel which reduces idle handoffs. See col. 1 lines 25-35. Therefore, it would have been obvious to one of ordinary skill in the art at the time of the invention to have used a quick paging channel in the above modified system since such would decrease idle handoffs.

In an analogous art, Tiedemann shows a system that uses soft handoff on common paging channels. This permits the receiver to receive the same "common" channel messages from a plurality of base stations during the transition or handoff time. Soft handoffs provide improved signal quality at the edges of cell coverage. Thresholds levels are used to select a base station during transition, see col. 3 lines 25+. Therefore, it would have been obvious to

have used the soft handoff common channel scheme offered by Tiedemann in order to improve signal quality at the edge of cell coverage.

Regarding the serial and parallel processing claim limitations, the examiner takes official notice that both are common processing techniques and since the applicant, by claiming both mutually exclusive techniques, is admitting that this feature lacks criticality, such a processing technique would have been obvious to one of ordinary skill in the art.

Allowable Subject Matter

Claims 29 and 47 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Response to Arguments

Applicant's arguments filed 4/22/04 have been fully considered but they are not persuasive.

The applicant argues that the references do not simultaneously monitor each of the quick paging channels..." As pointed out above, Bruckertt does show the active set of base stations monitored and demodulated simultaneously. See col. 4 lines 49-57. Furthermore, Tiedemann uses soft handoff that monitors the signals from a list of neighboring base stations simultaneously to improve overall SNR.

Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Brian A Zimmerman whose telephone number is 703-305-4796. The examiner can normally be reached on Off every other Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Mike Horabik can be reached on 703-305-4704. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Brian A Zimmerman
Primary Examiner
Art Unit 2635

BAZ

A handwritten signature in black ink, appearing to read "BAZ" followed by a stylized surname.